



## AMENDMENT / RESPONSE TRANSMITTAL

Applicant : Ahn, et al.  
 App. No. : 10/078285  
 Filed : February 15, 2002  
 For : LITHIUM ION SECONDARY  
 BATTERY AND  
 MANUFACTURING  
 METHOD OF THE SAME  
 Examiner : Tsang-Foster, S. N.  
 Art Unit : 1745

## CERTIFICATE OF MAILING

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

April 29, 2004

Rose M. Thiessen, Reg. No. 40,202

Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing in the above-identified application are the following enclosures:

- Response to Restriction Requirement in 2 pages.
- A check in the amount of \$110 is enclosed.
- Return prepaid postcard.
- Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Rose M. Thiessen  
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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(Date)

Rose M. Thiessen, Reg. No. 40,202

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

In an Office Action, mailed on March 24, 2004, a Restriction Requirement was imposed. In connection therewith, it is asserted that the application contained claims directed to more than one species of the generic invention. These species are as follows:

For the metal fiber additive, the species include iron fiber, nickel fiber, copper fiber, zinc fiber, titanium fiber, aluminum fiber, silver fiber, gold fiber, platinum fiber, iron-chromium alloy fiber, iron-chromium-nickel alloy (stainless steel) fiber, aluminum copper fiber, aluminum-manganese alloy fiber, aluminum-magnesium alloy fiber, and aluminum-silicon-magnesium alloy fiber.

For the cathode material, the species include organic sulfur compound, a polymeric organic sulfur compound, a compound represented by the formula  $\text{Li}_{1-x}\text{A}_x\text{Ni}_{1-y}\text{B}_y\text{O}_2$  (where, A=alkaline metal or alkaline earth metal, B=transition metal,  $0 \leq x \leq 0.1$ ,  $0 \leq y \leq 1.0$ ); a compound represented by the formula  $\text{LiMn}_{2-y}\text{M}_y\text{O}_4$  (where, M=Fe, Co, Ni:  $0.02 \leq y \leq 0.3$ ); a compound represented by the formula  $\text{Li}_{1-x}\text{Ni}_{1-y}\text{B}_y\text{O}_2$  (where, B=transition metal,  $0 \leq x \leq 0.1$ ,  $0 \leq y \leq 1.0$ );  $\text{NbSe}_3$ ;  $\text{Li}_x\text{V}_2\text{O}_5$  (where,  $0 \leq x \leq 0.3$ ); and  $\text{Li}_x\text{V}_6\text{O}_{13}$  (where,  $0 \leq x \leq 0.3$ ).

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Election

For the metal fiber additive, Applicants hereby elect the species including iron-chromium-nickel alloy (stainless steel) fiber. For the cathode material, Applicants hereby elect the species including a compound represented by the formula  $Li_{1-x}A_xNi_{1-y}B_yO_2$  (where, A=alkaline metal or alkaline earth metal, B=transition metal,  $0 \leq x \leq 0.1$ ,  $0 \leq y \leq 1.0$ ). The claims that read on the elected species include claims 1-4 and 6-12.

Conclusion

Should the Examiner have any concerns that might prevent the prompt allowance of the application, the Examiner is respectfully invited to contact the undersigned at the telephone number below.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 4/29/04

By: 

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